This program map is intended ONLY as a guide for students to plan their course of study. It does NOT replace any information in the Undergraduate Catalog, which is the official guide for completing degree requirements.
### Year 1

#### Term 1: Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: ENGL 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>A2: MATH 1113</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>B2: XIDS 2002</td>
<td>First Year Seminar Course</td>
<td>2</td>
</tr>
<tr>
<td>F: CHEM 1211/1211L</td>
<td>Principles of Chemistry 1 + Lab</td>
<td>4</td>
</tr>
<tr>
<td><strong>E1, E2, OR E3</strong></td>
<td>World/US History or US Government</td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete ENGL 1101 C or better
- Complete CHEM 1211 AND MATH 1113 C or better

#### Term 2: Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: ENGL 1102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>D2: MATH 1634</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>F: CHEM 1212/1212L</td>
<td>Principles of Chemistry 2 + Lab</td>
<td>4</td>
</tr>
<tr>
<td>E4: ECON 2105 OR 2106</td>
<td>Principles of Macroeconomics or Principles of Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete ENGL 1102, Economics, and Calculus with C or better
- Complete CHEM 1212 B or better

16 Fall Credit Hours + 14 Spring Credit Hours = 30 Credit Hours

### Year 2

#### Term 1: Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: CHEM 2411/2411L</td>
<td>Organic Chemistry 1 + Lab</td>
<td>4</td>
</tr>
<tr>
<td>D1: PHYS 1111 OR 2211 + LAB</td>
<td>Intro Physics 1 or Principles of Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2130</td>
<td>Sophomore Chemistry Seminar</td>
<td>1</td>
</tr>
<tr>
<td>F: MATH 1401</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td><strong>BUSINESS COURSE</strong></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete CHEM 2411 C or better

#### Term 2: Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3422/3422L</td>
<td>Organic Chemistry 2 + Lab</td>
<td>4</td>
</tr>
<tr>
<td>D1: PHYS 1112 OR 2212 + LAB</td>
<td>Intro Physics 2 or Principles of Physics 2</td>
<td>4</td>
</tr>
<tr>
<td><strong>E1, E2, OR E3</strong></td>
<td>World/US History or US Government</td>
<td>3</td>
</tr>
<tr>
<td><strong>BUSINESS COURSE</strong></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete Organic Chemistry I and II and Physics I and II C or better

15 Fall Credit Hours + 14 Spring Credit Hours = 29 Credit Hours
### Year 3

**TERM 1: FALL**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3310K: Analytical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3510: Survey of Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>BI OR C: Communications or Humanities/Fine Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

**TERM 2: SPRING**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 4711: Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BI, E2, OR E3: World/US History or US Government</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours:**

16 Fall Credit Hours + 15 Spring Credit Hours = 31 Credit Hours

**Milestones:**
- Complete Analytical Chemistry C or better

---

### Year 4

**TERM 1: FALL**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 4610: Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>BI OR C: Communications or Humanities/Fine Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

**TERM 2: SPRING**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 4910: Tools and Applications in Chemical Research and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours:**

15 Fall Credit Hours + 15 Spring Credit Hours = 30 Credit Hours

**Key:**
- **Color**: Core Area and Credit Hours
- **Color**: Business Course: Students must choose a Business Minor. The number of Business courses could vary depending on which minor.
- **Color**: Chemistry Course
- **Color**: Elective Course
### Ready

**First Year**
- Choose Concentration (ACS track recommended)
- Connect with your faculty mentor
- Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended)
- Look at the Chemistry Careers page on the American Chemical Society’s webpage
- Sign up for Handshake through Career Services
- Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center
- Find study buddies
- Go to events, have fun (balance time between study, work, and fun)

**Middle Years**
- Take Sophomore Seminar
- Complete Organic Chemistry sequence
- Complete Analytical Chemistry
- Complete other supporting courses (see Advisor to have a clear roadmap)
- Explore internships or part-time jobs in career-related areas (industry, pharmacy, etc)
- Explore summer internships or REU programs
- Explore volunteer opportunities with a club or in career-related areas
- Talk to your faculty mentor
- Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center
- Find study buddies
- Go to events, have fun (balance time between study, work, and fun)

**Last Year**
- Take Senior Seminar
- Take senior capstone course(s) and complete a senior project
- Complete all required courses for a degree
- Re-examine career paths with a chemistry degree (ACS Career page, alumni connections, your own aptitude and interest)
- Talk to alumni in a career field of interest, matched by your faculty mentor

### Set

**First Year**
- Connect with your faculty mentor
- Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended)
- Look at the Chemistry Careers page on the American Chemical Society’s webpage
- Sign up for Handshake through Career Services

**Middle Years**
- Join a research group or seek for student employment (workshop leader, laboratory assistant)
- Attend program/department/college events
- Attend senior research presentations and on-campus conferences
- Study and hang out in the student lounge (TLC 2116)
- Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended)
- Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center
- Find study buddies
- Go to events, have fun (balance time between study, work, and fun)

**Last Year**
- Attend program/department/college events
- Attend on-campus conferences
- Study and hang out in the student lounge (TLC 2116)
- Take Senior Seminar
- Take senior capstone course(s) and complete a senior project
- Complete all required courses for a degree
- Talk to Alumni in a career field of interest, matched by your faculty mentor

### Go

**First Year**
- Look at the Careers page on the American Chemical Society’s webpage
- Write preliminary resume
- Seek for resume-building opportunities related to your career goal (employment, research, activities, volunteering)

**Middle Years**
- Attend program/department/college events
- Attend on-campus conferences
- Study and hang out in the student lounge (TLC 2116)
- Explore internships or part-time jobs in career-related areas (industry, pharmacy, etc)
- Explore summer internships or REU programs
- Explore volunteer opportunities with a club or in career-related areas

**Last Year**
- Attend program/department/college events
- Attend on-campus conferences
- Study and hang out in the student lounge (TLC 2116)
- Build hands-on experience through research and/or internships
- Update your resume or CV
- Apply for graduate schools, professional school, or jobs
- Make sure to get help from Career Services for cover letters, resume, application, and interviews
- Talk to your faculty mentor
- Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center
- Find study buddies
- Go to events, have fun (balance time between study, work, and fun)
CAREERS
WHERE CAN YOU GO WITH THIS DEGREE?

- Analytical Chemist
- Chemical Engineer
- Geochemist
- Hazardous Waste Chemist
- Organic Chemist
- Pharmacologist
- Quality Control Chemist
- Synthetic Chemist
- Toxicologist
- Water Chemist